

Rabbit anti-Human, Mouse Collagen Xlalpha 1 Polyclonal Antibody | anti-COL11A1 antibody

Collagen Xlalpha 1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321205	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

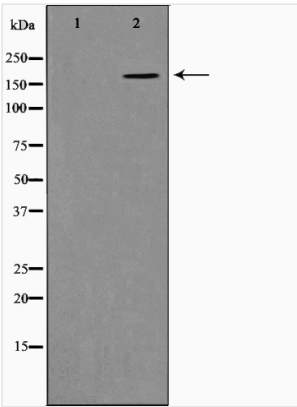
PRODUCT SYNONYMS

Collagen Xlalpha 1; Polyclonal Antibody; Collagen Xlalpha 1 Antibody; COBA1_HUMAN; COL11A1; COLL6; Collagen alpha 1; Collagen alpha-1(XI) chain; collagen XI alpha 1; collagen XI; alpha 1 polypeptide; collagen; type XI; alpha 1; STL2; STL3; XI chain precursor; anti-COL11A1 antibody

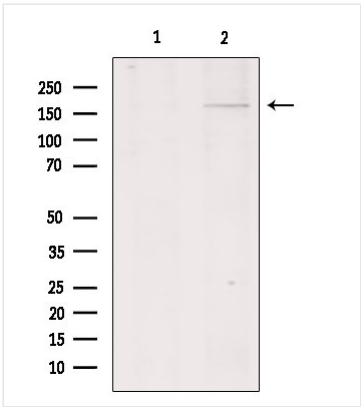
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Collagen Xlalpha 1 antibody detects endogenous levels of Collagen Xlalpha 1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1767
Applicable Applications for anti-COL11A1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Collagen Xlalpha 1
Subcellular Location	Secreted > Extracellular Space > Extracellular Matrix.
Tissue Specificity	Cartilage, placenta and some tumor or virally transformed cell lines. Isoforms using exon IIA or IIB are found in the cartilage while isoforms using only exon IIB are found in the tendon.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

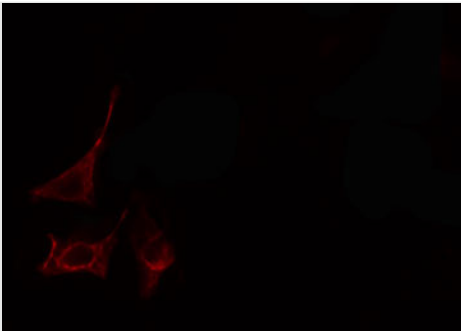
IMAGES



WB (Western Blot)
Western blot analysis on K562 cell lysate using Collagen XIalpha 1 Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of extracts from HepG2, using Collagen XIalpha 1 Antibody. Lane 1 was treated with the blocking peptide.



IF (Immunofluorescence)
AAA321205 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-COL11A1 antibody

Description: This gene encodes one of the two alpha chains of type XI collagen, a minor fibrillar collagen. Type XI collagen is a heterotrimer but the third alpha chain is a post-translationally modified alpha 1 type II chain. Mutations in this gene are associated with type II Stickler syndrome and with Marshall syndrome. Three transcript variants encoding different isoforms have been identified for this gene.

Function: May play an important role in fibrillogenesis by controlling lateral growth of collagen II fibrils.

Subunit Structure: Trimers composed of three different chains: alpha 1(XI), alpha 2(XI), and alpha 3(XI). Alpha 3(XI) is a post-translational modification of alpha 1(II). Alpha 1(V) can also be found instead of alpha 3(XI)=1(II).

Post-translational Modifications: Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains. N-glycosylated.

Similarity: The C-terminal propeptide, also known as COLFI domain, have crucial roles in tissue growth and repair by controlling both the intracellular assembly of procollagen molecules and the extracellular assembly of collagen fibrils. It binds a calcium ion which is essential for its function (By similarity). Belongs to the fibrillar collagen family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	299523257
NCBI GeneID	1301
NCBI Accession #	NP_001177638.1
NCBI GenBank Nucleotide #	NM_001190709.1
UniProt Accession #	P12107; Q14034; Q149N0; Q9UIT4; Q9UIT5; Q9UIT6; B1ASK7; D3DT73; E9PCU0

Molecular Weight	Observed: 181 kDa Predicted: 182 kDa
NCBI Official Full Name	collagen alpha-1(XI) chain isoform E preproprotein
NCBI Official Synonym Full Names	collagen type XI alpha 1 chain
NCBI Official Symbol	COL11A1
NCBI Official Synonym Symbols	STL2; COLL6; CO11A1
NCBI Protein Information	collagen alpha-1(XI) chain
UniProt Protein Name	Collagen alpha-1(XI) chain
UniProt Gene Name	COL11A1
UniProt Synonym Gene Names	COLL6

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/collagen-xialpha-1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321205>